

PATENT ABSTRACTS OF JAPAN

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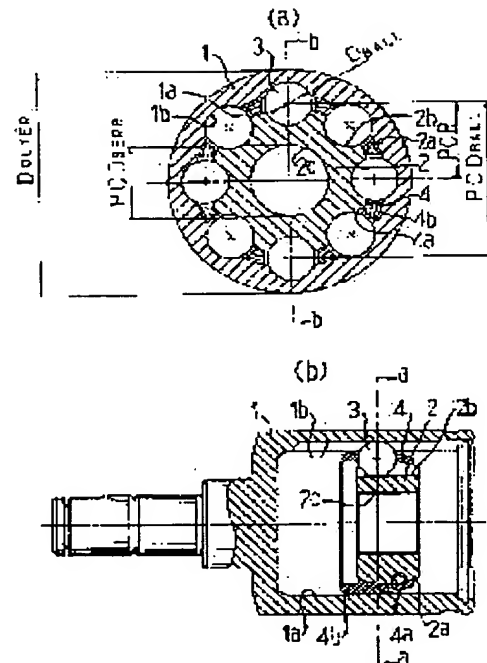
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(54) SLIDE TYPE CONSTANT VELOCITY UNIVERSAL JOINT

(57)Abstract:

PROBLEM TO BE SOLVED: To ensure a compactness, strength, durability, load capacity and operation angle.

SOLUTION: Eight torque transmission balls 3 are arranged. The ratio $r1(=PCDBALL/DBALL)$ between the pitch circle diameter PCDBALL ($PCDBALL=2 \times PCR$) and the diameter DBALL of the torque transmission ball 3 is set to the value within the range of $2.9 \leq r1 \leq 4.5$ and the ratio $r1(=DOUTER/PCDSERR)$ and the ratio $r1(=DOUTER/PCDSERR)$ between the outer diameter DOUTER of the outside joint member 1 and the pitch circle diameter PCDSERR of the serration (or spline) 2c of the inside joint member 2 is set to the value within the range of $2.5 \leq r2 \leq 3.5$. Thereby, the stable operability and a constant velocity property of the joint is ensured and simultaneously the strength shortage of a holder and the falling-off of the torque transmission ball from a packet can be prevented.



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